

-1- (JAPIO)
ACCESSION NUMBER
TITLE
PATENT APPLICANT
INVENTORS
PATENT NUMBER
APPLICATION DETAILS
SOURCE

INT'L PATENT CLASS
JAPIO CLASS
ABSTRACT

86-133560
ZINC ALKALINE BATTERY
(2000582) MATSUSHITA ELECTRIC IND CO LTD
TAKADA, KANJI; OKAZAKI, RYOJI; MIURA, AKIRA
86.06.20 J61133560, ~~J61133560~~
84.11.30 84JP-253136, 59-253136
86.11.06 SECT. E, SECTION NO. 451; VOL. 10, NO. 325,
PG. 94.
H01M-004/12; H01M-004/42
42.9 (ELECTRONICS--Other)
PURPOSE: To obtain a zinc alkaline battery having low
environmental pollution to decrease mercury content
without decreasing corrosion resistance of a negative
zinc by using gelled negative zinc obtained by adding
zinc powder in a gelled alkaline electrolyte in which
mercuric oxide powder is dispersed to amalgamate the
surface of the zinc powder.
CONSTITUTION: Zinc powder is added to a gelled
alkaline electrolyte in which mercuric oxide powder
is dispersed to amalgamate the surface of the zinc
powder with mercuric oxide powder. This amalgamated
zinc negative electrode 8 is used. For example,
sodium polyacrylate is added to 40wt% potassium
hydroxide and they are stirred to obtain a gelled
alkaline electrolyte. Mercuric oxide powder having a
mean particle diameter of 15.mu.m is added and
dispersed by stirring. Zinc powder having a mean
particle diameter of 150.mu.m is added to the gelled
alkaline electrolyte and stirred until the surface of
zinc powder is amalgamated. By this process, the
gelled zinc negative electrode 8 is formed.